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# UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.

501.43680X00

First Inventor

SHIGA, KENTA

Title

PATH CONTROL METHOD

Express Mail Label No.

## APPLICATION ELEMENTS

SEE MPEP chapter 600 concerning utility patent application contents.

ADDRESS TO:

Mail Stop Patent Application  
Commissioner for Patents  
P.O. Box 1450  
Alexandria VA 22313-1450

1. ☒ Fee Transmittal Form (e.g., PTO/SB/17)  
(Submit an original and a duplicate for fee processing)

2. ☐ Applicant claims small entity status.  
See 37 CFR 1.27.

3. ☒ Specification [Total Pages: **69**]  
(preferred arrangement set forth below)

-Descriptive title of the invention  
-Cross Reference to Related Applications  
-Statement Regarding Fed sponsored R & D  
-Reference to sequence listing, a table,  
or a computer program listing appendix  
-Background of the Invention  
-Brief Summary of the Invention  
-Brief Description of the Drawings (if filed)  
-Detailed Description  
-Claim(s)  
-Abstract of the Disclosure

4. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets: **19**]

5. Oath or Declaration [Total Sheets: \_\_\_\_\_]

- a. ☐ Newly executed (original or copy)  
b. ☐ Copy from a prior application (37 CFR 1.63 (d))  
(for continuation/divisional with Box 18 completed)

- i. ☐ **DELETION OF INVENTOR(S)**  
Signed statement attached deleting inventor(s)  
Named in the prior application, see 37 CFR  
1.63(d)(2) and 1.33(b)

6. ☐ Application Data Sheet. See 37 CFR 1.76

7. ☐ CD-ROM or CD-R in duplicate, large table or  
Computer Program (Appendix)  
8. Nucleotide and/or Amino Acid Sequence Submission  
(if applicable, all necessary)  
a. ☐ Computer Readable Form (CRF)  
b. Specification Sequence Listing on:  
i. ☐ CD-ROM or CD-R (2 copies); or  
ii. ☐ paper  
c. ☐ Statements verifying identity of above copies

## ACCOMPANYING APPLICATION PARTS

9. ☐ Assignment Papers (cover sheet & documents(s))  
10. ☐ 37 CFR 3.73(b) Statement ☐ Power of Attorney  
(when there is an assignee)  
11. ☐ English Translation Document (if applicable)  
12. ☒ Information Disclosure ☒ Copies of IDS Citations  
Statement (IDS)/PTO-1449  
13. ☐ Preliminary Amendment  
14. ☒ Return Receipt Postcard (MPEP 503)  
(Should be specifically itemized)  
15. ☐ Certified Copy of Priority Document(s)  
(if foreign priority is claimed)  
16. ☐ Nonpublication Request under 35 U.S.C. 122  
(b)(2)(B)(i). Applicant must attach form PTO/SB/35  
or its equivalent.  
17. ☒ Other: **Figs. 1-19, Credit Card Payment Form, Claim  
For Priority Letter**

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment,  
or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.:

Prior application information: Examiner: \_\_\_\_\_ Art Unit: \_\_\_\_\_

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under  
Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference.  
The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

## 19. CORRESPONDENCE ADDRESS

|   |                                      |           |                                   |  |
|---|--------------------------------------|-----------|-----------------------------------|--|
| <input checked="" type="checkbox"/> Customer Number | 020457                               |           |                                   | OR <input type="checkbox"/> Correspondence address below |
| Name  | ANTONELLI, TERRY, STOUT & KRAUS, LLP |           |                                   |  |
| Address   |                                      |           |                                   |  |
| City  |                                      | State     |                                   | Zip Code   |
| Country   |                                      | Telephone | (703) 312-6600                    | Fax (703) 312-6666                                       |
| Name (Print/Type)                                   | Carl I. Brundidge                    |           | Registration No. (Attorney/Agent) | 29,621   |
| Signature   |                                      |           | Date                              | March 17, 2004   |

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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031704

13281 U.S. PTO

22856 U.S. PTO  
10801720

031704

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**FEE TRANSMITTAL  
for FY 2004**

Effective 10/01/2003. Patent fees are subject to annual revision.

**Complete if Known**

|                      |                |
|----------------------|----------------|
| Application Number   |                |
| Filing Date          | March 17, 2004 |
| First Named Inventor | SHIGA, KENTA   |
| Examiner Name        |                |
| Art Unit             |                |
| Attorney Docket No.  | 501.43680X00   |

☐ Applicant claims small entity status. See 37 CFR 1.27TOTAL AMOUNT OF PAYMENT (\$)**856.00****METHOD OF PAYMENT (check all that apply)**☐ Check ☒ Credit Card ☐ Money Order ☐ Other ☐ None☒ Deposit Account:Deposit  
Account  
Number  
Deposit  
Account  
Name

01-2135

Antonelli, Terry, Stout &amp; Kraus, LLP

The Director is authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☒ Credit any overpayments☒ Charge any additional fee(s) during the pendency of this application.☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.**FEE CALCULATION****1. BASIC FILING FEE**

| Large Entity Fee Code | Small Entity Fee Code | Fee (\$) | Fee (\$) | Fee Description        | Fee Paid      |
|-----------------------|-----------------------|----------|----------|------------------------|---------------|
| 1001                  | 770                   | 2001     | 385      | Utility filing fee     | 770.00        |
| 1002                  | 340                   | 2002     | 170      | Design filing fee      |               |
| 1003                  | 530                   | 2003     | 265      | Plant filing fee       |               |
| 1004                  | 770                   | 2004     | 385      | Reissue filing fee     |               |
| 1005                  | 160                   | 2005     | 80       | Provisional filing fee |               |
| <b>SUBTOTAL (1)</b>   |                       |          |          |                        | <b>770.00</b> |

**2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE**

|                    | Extra Claims | Fee from below | Fee Paid     |
|--------------------|--------------|----------------|--------------|
| Total Claims       | 20           | -20** = 0      | x 18 = 0     |
| Indep. Claims      | 4            | -3** = 1       | x 86 = 86.00 |
| Multiple Dependent |              | 290            | = 0          |

| Large Entity Fee Code       | Small Entity Fee Code | Fee (\$) | Fee (\$) | Fee Description  |
|-----------------------------|-----------------------|----------|----------|--|
| 1202                        | 18                    | 2202     | 9        | Claims in excess of 20                                     |
| 1201                        | 86                    | 2201     | 43       | Independent claims in excess of 3                          |
| 1203                        | 290                   | 2203     | 145      | Multiple dependent claim, if not paid                      |
| 1204                        | 86                    | 2204     | 43       | ** Reissue independent claims over original patent         |
| 1205                        | 18                    | 2205     | 9        | ** Reissue claims in excess of 20 and over original patent |
| <b>SUBTOTAL (2) \$86.00</b> |                       |          |          |  |

\*\*or number previously paid, if greater; For Reissues, see above.

**FEE CALCULATION (continued)****3. ADDITIONAL FEES**


Large Entity Small Entity

| Fee Code | Fee (\$) | Fee Code | Fee (\$) | Fee Description  |
|----------|----------|----------|----------|--|
| 1051     | 130      | 2051     | 65       | Surcharge - late filing fee or oath  |
| 1052     | 50       | 2052     | 25       | Surcharge - late provisional filing fee or cover sheet                     |
| 1053     | 130      | 1053     | 130      | Non-English specification  |
| 1812     | 2,520    | 1812     | 2,520    | For filing a request for <i>ex parte</i> reexamination                     |
| 1804     | 920*     | 1804     | 920*     | Requesting publication of SIR prior to Examination action                  |
| 1805     | 1,840*   | 1805     | 1,840*   | Requesting publication of SIR after Examiner action                        |
| 1251     | 110      | 2251     | 55       | Extension for reply within first month                                     |
| 1252     | 420      | 2252     | 210      | Extension for reply within second month                                    |
| 1253     | 950      | 2253     | 475      | Extension for reply within third month                                     |
| 1254     | 1,480    | 2254     | 740      | Extension for reply within fourth month                                    |
| 1255     | 2,010    | 2255     | 1,005    | Extension for reply within fifth month                                     |
| 1401     | 330      | 2401     | 165      | Notice of Appeal   |
| 1402     | 330      | 2402     | 165      | Filing a brief in support of an appeal                                     |
| 1403     | 290      | 2403     | 145      | Request for oral hearing   |
| 1451     | 1,510    | 1451     | 1,510    | Petition to institute a public use proceeding                              |
| 1452     | 110      | 2452     | 55       | Petition to revive - unavoidable   |
| 1453     | 1,330    | 2453     | 665      | Petition to revive - unintentional   |
| 1501     | 1,330    | 2501     | 665      | Utility issue fee (or reissue)   |
| 1502     | 480      | 2502     | 240      | Design issue fee   |
| 1503     | 640      | 2503     | 320      | Plant issue fee  |
| 1406     | 130      | 1460     | 130      | Petitions to the Commissioner  |
| 1807     | 50       | 1807     | 50       | Processing fee under 37 CFR 1.17(q)  |
| 1806     | 180      | 1806     | 180      | Submission of Information Disclosure Stmt                                  |
| 8021     | 40       | 8021     | 40       | Recording each patent assignment per property (times number of properties) |
| 1809     | 770      | 2809     | 385      | Filing a submission after final rejection (37 CFR § 1.129(a))              |
| 1810     | 770      | 2810     | 385      | For each additional invention to be examined (37 CFR § 1.129(b))           |
| 1801     | 770      | 2801     | 385      | Request for Continued Examination (RCE)                                    |
| 1802     | 900      | 1802     | 900      | Request for expedited examination of a design application                  |

Other fee (specify) \_\_\_\_\_

\*Reduced by Basic Filing Fee Paid

**SUBTOTAL (3) (\$)****0.00****SUBMITTED BY****Complete (if applicable)**

|                   |   |                                   |                |           |              |
|-------------------|---|-----------------------------------|----------------|-----------|--------------|
| Name (Print/Type) | Carl I. Brundidge   | Registration No. (Attorney/Agent) | 29,621         | Telephone | 703-312-6600 |
| Signature         |  | Date                              | March 17, 2004 |           |              |

**WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

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